



FY2000 Nuclear Physics Manpower Survey

Division of Nuclear Physics

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This report conveys the results of the October 2000 survey of scientific manpower in the Nuclear Physics program. The same procedure as in previous years was used. People were counted in the categories of permanent Ph.D. staff, temporary Ph.D. staff, Ph.D. staff not supported by DOE, DOE-supported graduate students, and graduate students not supported by DOE. Counts of Ph.D.'s awarded were also collected. In all cases, people were asked to self-define whether they were primarily doing experimental or theoretical work. Persons who receive support from the National Science Foundation are not included in this survey.

On October 1, 2000 we found that 1,874 scientists and students were associated with the program. Of this number DOE supported 676 permanent Ph.D. staff, 363 temporary Ph.D. staff, and 408 graduate students. Not supported directly by DOE but associated with the program were an additional 175 Ph.D. staff and 252 graduate students.

Summaries of the numerical data for the years 1986 through 2001 are provided as well as separate summary data for the national laboratories and universities (Reference the hyperlinks on the left). Note that the 2001 data are only estimates whereas the 1986 -2000 data are actual counts.

James C. Hawkins
December 1, 2000

Results of Nuclear Physics Manpower Surveys

DOE Supported Manpower Data Manpower Counts on October 1st

SUMMARY OF LABORATORIES & UNIVERSITIES

Both Experimental and Theory

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	603	658	662	672	666	676	699	707	687	657	689	682	689	690	676	700
Temporary Staff	268	271	275	284	275	296	330	375	362	342	346	360	380	394	363	399
Graduate Students	343	370	391	382	411	427	422	426	449	418	423	422	415	404	408	432
TOTAL	1,214	1,299	1,328	1,338	1,352	1,399	1,451	1,508	1,498	1,417	1,458	1,464	1,484	1,488	1,447	1,531
Ph.D.'s Awarded	76	79	66	87	70	81	114	99	97	101	96	97	100	95	87	99

Experimental

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	475	518	527	531	525	529	549	556	536	515	536	538	547	551	542	562
Temporary Staff	206	210	215	215	205	226	247	280	278	260	263	280	299	298	286	318
Graduate Students	271	295	311	304	333	342	336	329	345	320	321	323	323	319	320	341
TOTAL	952	1,023	1,053	1,050	1,063	1,097	1,132	1,165	1,159	1,095	1,120	1,141	1,169	1,168	1,148	1,221
Ph.D.'s Awarded	48	54	45	64	52	59	88	73	80	78	71	66	67	70	56	75

Theory

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	128	140	135	141	141	147	150	151	151	142	153	144	142	139	134	138
Temporary Staff	62	61	60	69	70	70	83	95	84	82	83	80	81	96	77	81
Graduate Students	72	75	80	78	78	85	86	97	104	98	102	99	92	85	88	91
TOTAL	262	276	275	288	289	302	319	343	339	322	338	323	315	320	299	310
Ph.D.'s Awarded	28	25	21	23	18	22	26	26	17	23	25	31	33	25	31	24

* Estimated numbers

Results of Nuclear Physics Manpower Surveys

DOE Supported Manpower Data Manpower Counts on October 1st

SUMMARY OF NATIONAL LABORATORIES

Both Experimental and Theory

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	317	333	346	353	355	357	359	361	340	323	321	318	320	327	317	329
Temporary Staff	99	108	111	122	117	126	139	158	143	145	134	143	147	163	140	155
Graduate Students	36	38	45	49	58	58	53	57	65	58	62	63	79	62	53	57
TOTAL	452	479	502	524	530	541	551	576	548	526	517	524	546	552	510	541
Ph.D.'s Awarded	1	4	6	5	9	10	7	13	19	11	10	9	15	0	0	0

Experimental

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	270	284	298	296	297	302	303	314	290	276	278	280	284	290	286	299
Temporary Staff	80	89	92	100	92	101	114	128	121	118	110	120	124	129	121	134
Graduate Students	35	36	43	46	53	48	47	52	60	53	57	58	70	55	49	52
TOTAL	385	409	433	442	442	451	464	494	471	447	445	458	478	474	456	485
Ph.D.'s Awarded	1	4	6	4	8	9	5	11	18	10	9	6	12	0	0	0

Theory

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	47	49	48	57	58	55	56	47	50	47	43	38	36	37	31	30
Temporary Staff	19	19	19	22	25	25	25	30	22	27	24	23	23	34	19	21
Graduate Students	1	2	2	3	5	10	6	5	5	5	5	5	9	7	4	5
TOTAL	67	70	69	82	88	90	87	82	77	79	72	66	68	78	54	56
Ph.D.'s Awarded	0	0	0	1	1	1	2	2	1	1	1	3	3	0	0	0

* Estimated numbers

Results of Nuclear Physics Manpower Surveys

DOE Supported Manpower Data Manpower Counts on October 1st

SUMMARY OF UNIVERSITIES

Both Experimental and Theory

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	286	325	316	319	311	319	340	346	347	334	368	364	369	363	359	371
Temporary Staff	169	163	164	162	158	170	191	217	219	197	212	217	233	231	223	244
Graduate Students	307	332	346	333	353	369	369	369	384	360	361	359	336	342	355	375
TOTAL	762	820	826	814	822	858	900	932	950	891	941	940	938	936	937	990
Ph.D.'s Awarded	75	75	60	82	61	71	107	86	78	90	86	88	85	95	87	99

Experimental

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	205	234	229	235	228	227	246	242	246	239	258	258	263	261	256	263
Temporary Staff	126	121	123	115	113	125	133	152	157	142	153	160	175	169	165	184
Graduate Students	236	259	268	258	280	294	289	277	285	267	264	265	253	264	271	289
TOTAL	567	614	620	608	621	646	668	671	688	648	675	683	691	694	692	736
Ph.D.'s Awarded	47	50	39	60	44	50	83	62	62	68	62	60	55	70	56	75

Theory

	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001*</u>
Permanent Staff	81	91	87	84	83	92	94	104	101	95	110	106	106	102	103	108
Temporary Staff	43	42	41	47	45	45	58	65	62	55	59	57	58	62	58	60
Graduate Students	71	73	78	75	73	75	80	92	99	93	97	94	83	78	84	86
TOTAL	195	206	206	206	201	212	232	261	262	243	266	257	247	242	245	254
Ph.D.'s Awarded	28	25	21	22	17	21	24	24	16	22	24	28	30	25	31	24

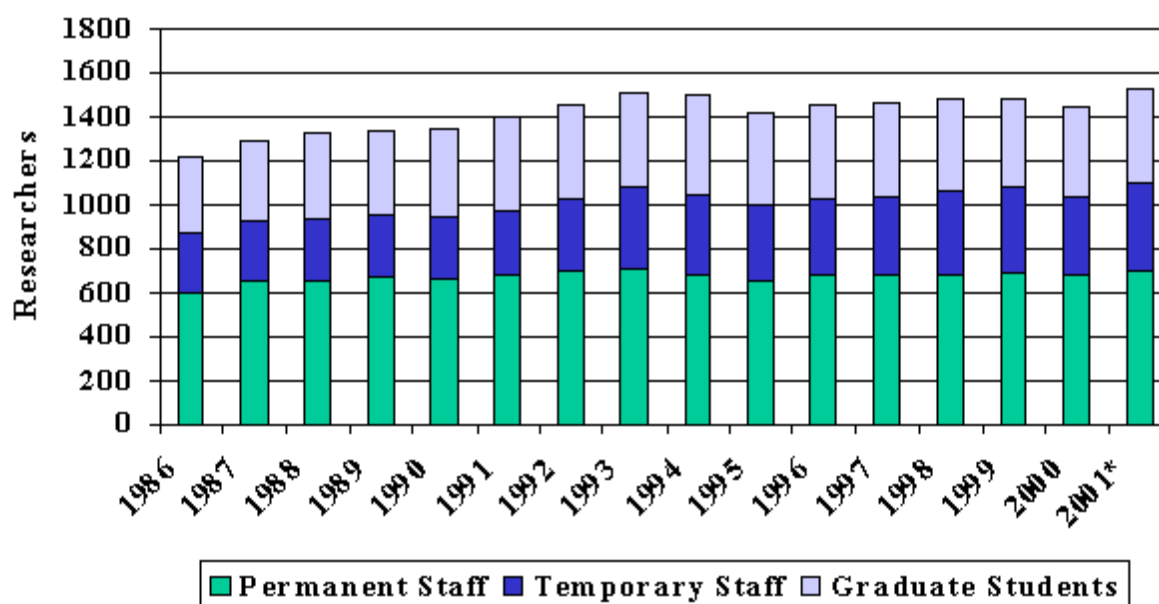
* Estimated numbers

*Last Updated on 11/30/2000
By US DEPT. OF ENERGY*

FY2000 Nuclear Physics Manpower Survey

DOE Support Manpower

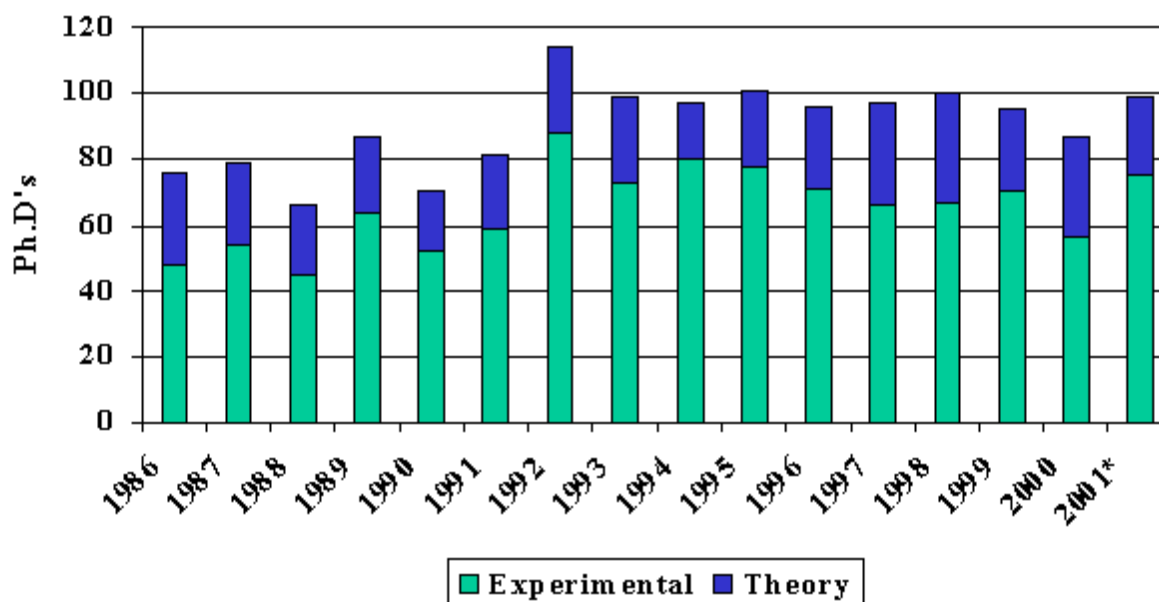
Laboratories and Universities



*FY2001 estimated numbers

FY2000 Nuclear Physics Manpower Survey

Ph.D.s Awarded



*FY2001 estimated numbers

Last Updated on 11/29/2000
By US DEPT. OF ENERGY

DETAIL INSTRUCTIONS for

FY2000 DOE Nuclear Physics Manpower Survey

(Count of personnel on October 1st of each year.)

PI Name: _____ (Provided)
 Research Type: _____ (Provided)
 Program Type: _____ (Provided)
 Preparer: _____

Form Number: _____ (Provided)
 Institution Name: _____ (Provided)
 Institution Type: _____ (Provided)
 Date: _____

	1999 Firm		2000 Estimate		2000 Firm		2001 Estimate	
	<u>EXP</u> ¹	<u>TH</u> ¹	<u>EXP</u> ¹	<u>TH</u> ¹	<u>EXP</u> ¹	<u>TH</u> ¹	<u>EXP</u> ¹	<u>TH</u> ¹
<u>Ph.D. or Equivalent</u>								
Permanent Staff ^{2,3}	#	#	#	#	_____	_____	_____	_____
Temporary Staff ^{2,4}	#	#	#	#	_____	_____	_____	_____
Non-Supported Staff ^{2,5}	#	#	#	#	_____	_____	_____	_____
<u>Graduate Students</u>								
Graduate Students ^{2,6}	#	#	#	#	_____	_____	_____	_____
Non-Supp Grad. Students ^{2,7}	#	#	#	#	_____	_____	_____	_____
<u>Ph.D. Degrees Awarded</u>	#	#	#	#	_____	_____	_____	_____

- Numbers reported in previous year provided.

Notes:

1. The split between experiment and theory, when not clear, should identify people by what they think they are doing, and not follow exactly the DOE budget category of funding support.
2. Count individuals as one person and not as fractions of a person.
3. Permanent staff (Ph.D. or equivalent) supported by the DOE contract or grant. Count all faculty, including assistant professors, whose summer support comes from DOE, as well as contract-tenured staff.
4. Temporary staff (Ph.D. or equivalent) supported primarily by the DOE contract or grant. Include postdoctoral fellows and visitors.
5. Staff personnel (Ph.D. or equivalent) including faculty who are involved in the research related to the DOE contract or grant but who are **not** supported by DOE, such as persons supported by State funds, university funds, NASA, funds from a private foundation, or foreign funds. **Do not include personnel supported by the NSF.**
6. Graduate students whose primary source of support is the DOE contract or grant. **To avoid double counting,** graduate on off-campus assignment **should be reported by the home institution of their faculty supervisor** when DOE or NSF funding supports him or her.
7. Graduate students doing research related to the DOE contract or grant, but are **not** supported by DOE.